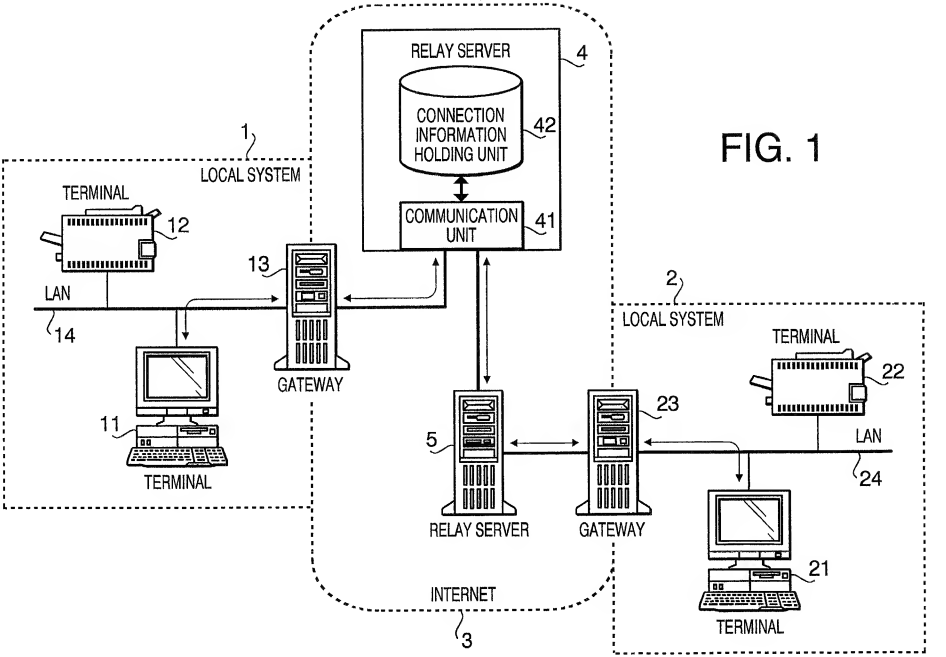
RELAY SERVER
4
CONNECTION INFORMATION HOLDING UNIT
42
COMMUNICATION UNIT
41
1
LOCAL SYSTEM
TERMINAL
12
13
LAN
14
GATEWAY
11
TERMINAL
5
RELAY SERVER
GATEWAY
23
INTERNET
3
2
LOCAL SYSTEM
TERMINAL
22
LAN
24
21
TERMINAL

FIG. 1

SERVER NAME	IP ADDRESS	LAST RENEWAL DATE AND TIME	
server4. xyz. com	200. 1. 30. 12	2000 / 1 / 1 12 : 35 : 00	
USER ID	TYPE	ATTRIBUTION	CONDITION
a b c	USER	—	logoff
d e f	FAX	FILE TX / RX	logoff

FIG. 2

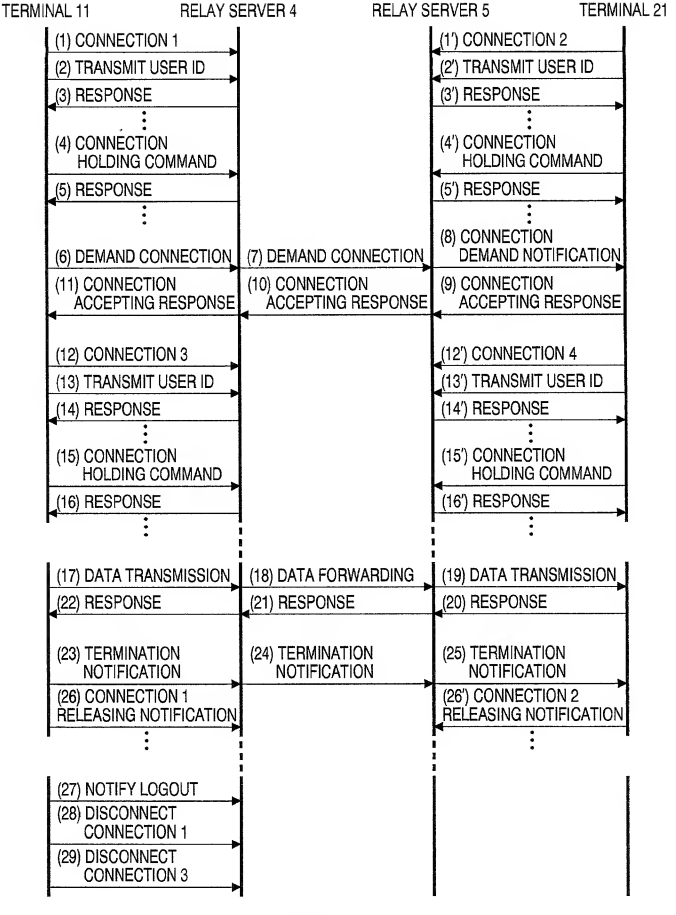
TERMINAL 11
RELAY SERVER 4
RELAY SERVER 5
TERMINAL 21
(1) CONNECTION 1
(2) TRANSMIT USER ID
(3) RESPONSE
(4) CONNECTION HOLDING COMMAND
(5) RESPONSE
(6) DEMAND CONNECTION
(7) DEMAND CONNECTION
(8) CONNECTION DEMAND NOTIFICATION
(11) CONNECTION ACCEPTING RESPONSE
(10) CONNECTION ACCEPTING RESPONSE
(9) CONNECTION ACCEPTING RESPONSE
(12) CONNECTION 3
(13) TRANSMIT USER ID
(14) RESPONSE
(15) CONNECTION HOLDING COMMAND
(16) RESPONSE
(1') CONNECTION 2
(2') TRANSMIT USER ID
(3') RESPONSE
(4') CONNECTION HOLDING COMMAND
(5') RESPONSE
(12') CONNECTION 4
(13') TRANSMIT USER ID
(14') RESPONSE
(15') CONNECTION HOLDING COMMAND
(16') RESPONSE
(17) DATA TRANSMISSION
(18) DATA FORWARDING
(19) DATA TRANSMISSION
(22) RESPONSE
(21) RESPONSE
(20) RESPONSE
(23) TERMINATION NOTIFICATION
(24) TERMINATION NOTIFICATION
(25) TERMINATION NOTIFICATION
(26) CONNECTION 1 RELEASING NOTIFICATION
(26') CONNECTION 2 RELEASING NOTIFICATION
(27) NOTIFY LOGOUT
(28) DISCONNECT CONNECTION 1
(29) DISCONNECT CONNECTION 3

FIG. 3

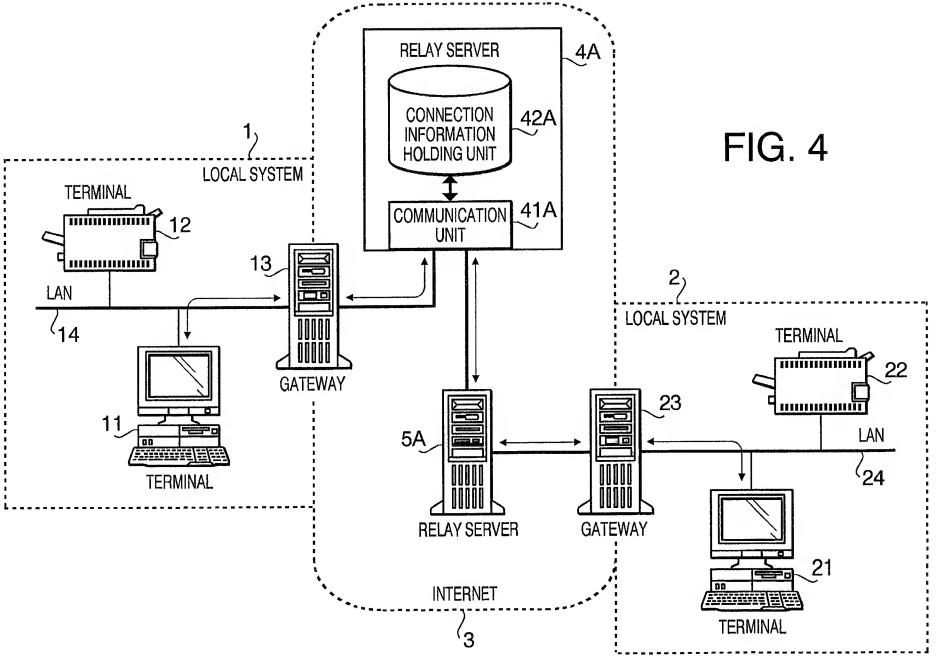
RELAY SERVER
4A
CONNECTION INFORMATION HOLDING UNIT
42A
COMMUNICATION UNIT
41A
1
LOCAL SYSTEM
TERMINAL
12
13
LAN
14
GATEWAY
11
TERMINAL
5A
RELAY SERVER
23
GATEWAY
2
LOCAL SYSTEM
TERMINAL
22
LAN
24
21
TERMINAL
INTERNET
3

FIG. 4

SERVER NAME	IP ADDRESS	LAST RENEWAL DATE AND TIME	
server4. xyz. com	200. 1. 30. 12	2000 / 1 / 1 12 : 35 : 00	
USER ID	TYPE	ATTRIBUTION	CONDITION
a b c	USER	—	logout
d e f	FAX	FILE TX / RX	login

FIG. 5(A)

server1. xyz. com CONNECTION INFORMATION
server2. xyz. com CONNECTION INFORMATION
server3. xyz. com CONNECTION INFORMATION
server4. xyz. com CONNECTION INFORMATION
⋮
serverN. xyz. com CONNECTION INFORMATION

FIG. 5(B)

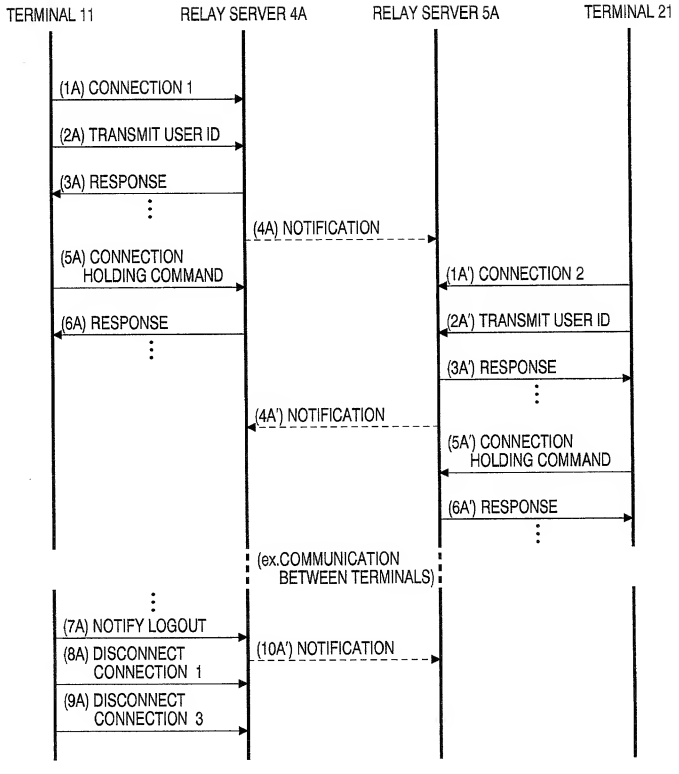
TERMINAL 11
RELAY SERVER 4A
RELAY SERVER 5A
TERMINAL 21
(1A) CONNECTION 1
(2A) TRANSMIT USER ID
(3A) RESPONSE
(4A) NOTIFICATION
(5A) CONNECTION HOLDING COMMAND
(1A') CONNECTION 2
(6A) RESPONSE
(2A') TRANSMIT USER ID
(3A') RESPONSE
(4A') NOTIFICATION
(5A') CONNECTION HOLDING COMMAND
(6A') RESPONSE
(ex.COMMUNICATION BETWEEN TERMINALS)
(7A) NOTIFY LOGOUT
(8A) DISCONNECT CONNECTION 1
(10A') NOTIFICATION
(9A) DISCONNECT CONNECTION 3

FIG. 6

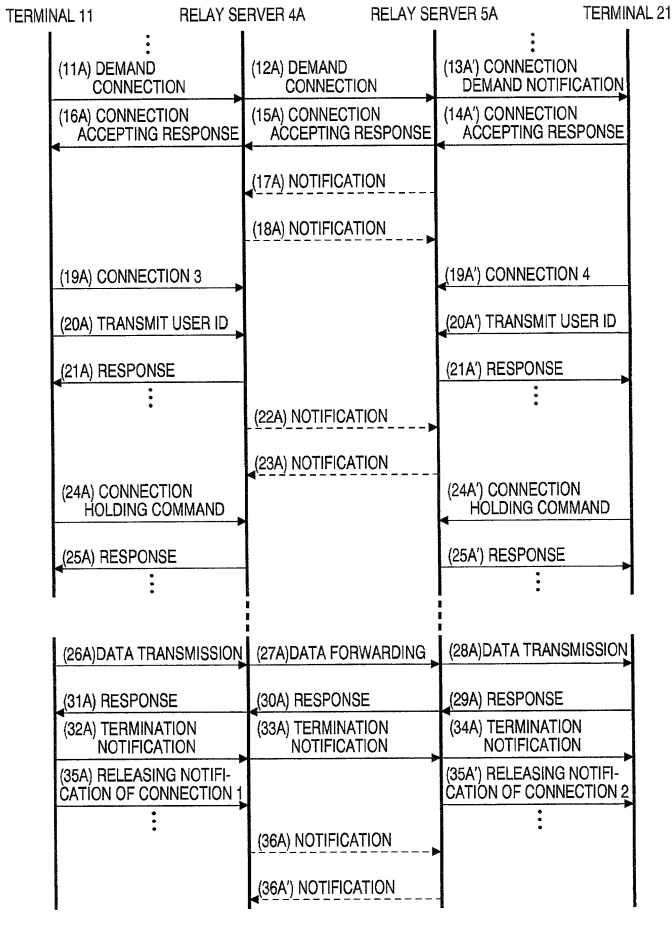
TERMINAL 11
RELAY SERVER 4A
RELAY SERVER 5A
TERMINAL 21
(11A) DEMAND CONNECTION
(12A) DEMAND CONNECTION
(13A') CONNECTION DEMAND NOTIFICATION
(16A) CONNECTION ACCEPTING RESPONSE
(15A) CONNECTION ACCEPTING RESPONSE
(14A') CONNECTION ACCEPTING RESPONSE
(17A) NOTIFICATION
(18A) NOTIFICATION
(19A) CONNECTION 3
(19A') CONNECTION 4
(20A) TRANSMIT USER ID
(20A') TRANSMIT USER ID
(21A) RESPONSE
(21A') RESPONSE
(22A) NOTIFICATION
(23A) NOTIFICATION
(24A) CONNECTION HOLDING COMMAND
(24A') CONNECTION HOLDING COMMAND
(25A) RESPONSE
(25A') RESPONSE
(26A)DATA TRANSMISSION
(27A)DATA FORWARDING
(28A)DATA TRANSMISSION
(31A) RESPONSE
(30A) RESPONSE
(29A) RESPONSE
(32A) TERMINATION NOTIFICATION
(33A) TERMINATION NOTIFICATION
(34A) TERMINATION NOTIFICATION
(35A) RELEASING NOTIFICATION OF CONNECTION 1
(35A') RELEASING NOTIFICATION OF CONNECTION 2
(36A) NOTIFICATION
(36A') NOTIFICATION

FIG. 7

20070102.20070102

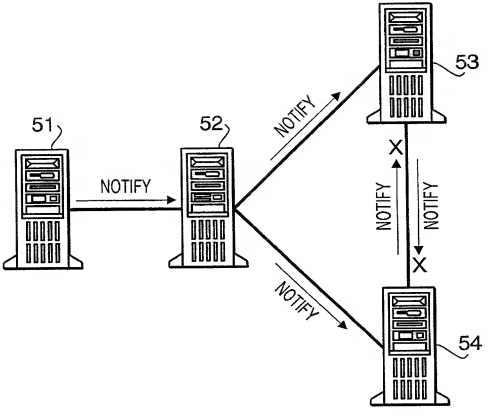

FIG. 8

EDITED: 2005/10/07

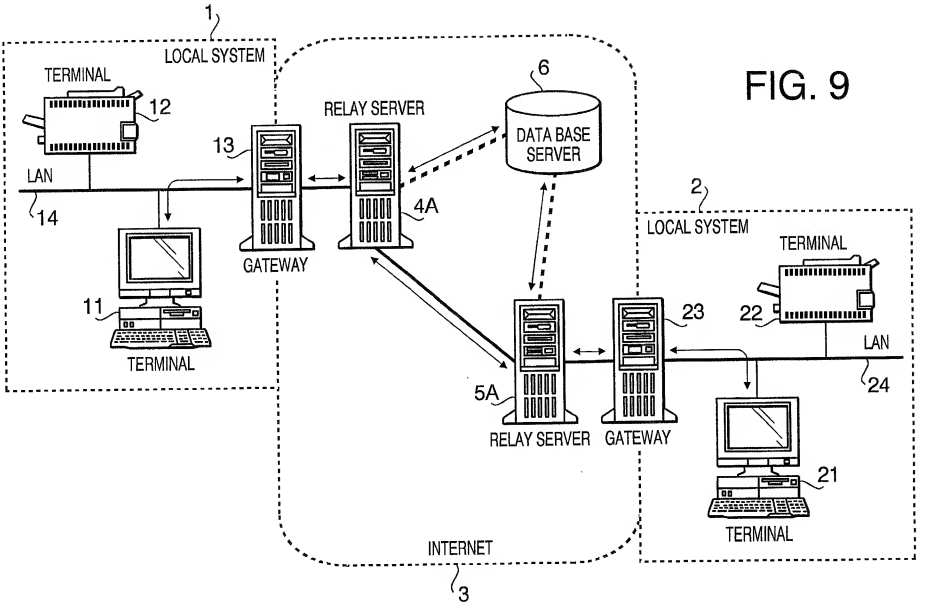

FIG. 9

20070702085400T

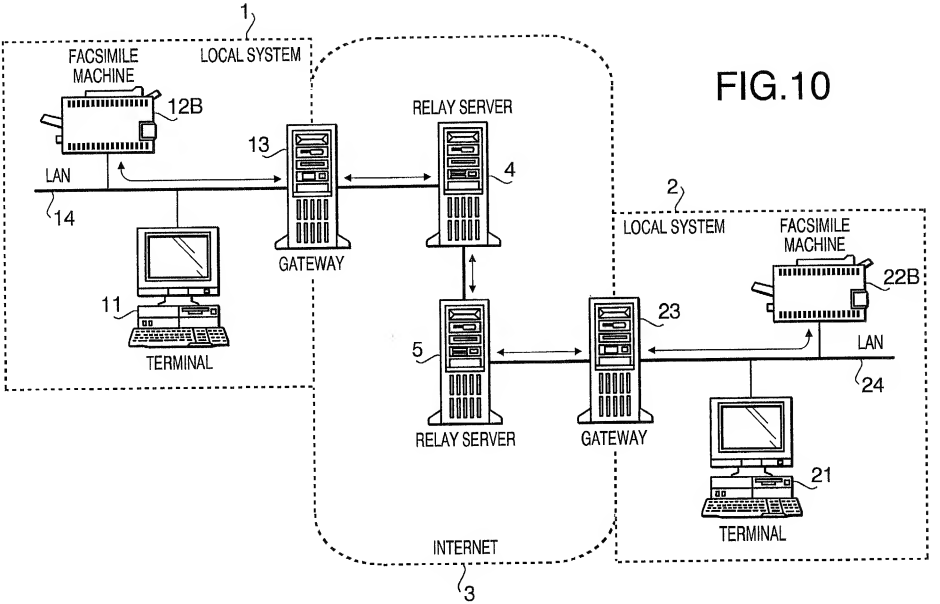

FIG.10

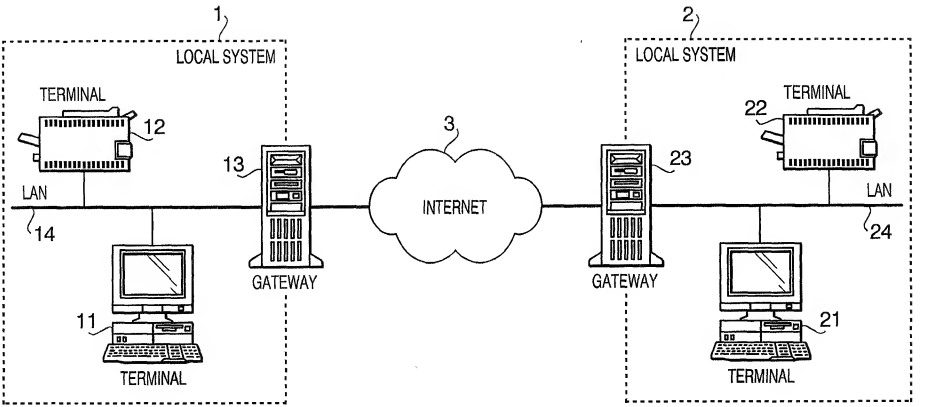
1
LOCAL SYSTEM
TERMINAL
12
13
LAN
14
GATEWAY
11
TERMINAL
3
INTERNET
2
LOCAL SYSTEM
TERMINAL
22
23
LAN
24
GATEWAY
21
TERMINAL

FIG.11